ULTRASOUND DISPLAY OF TISSUE, TRACKING AND TAGGING

Abstract of Disclosure

An ultrasound machine that generates a pattern of indicia corresponding to tracked moving structure, such as a cardiac wall tissue that is displayed on a monitor. The pattern of indicia is generated by displaying a set of tagging symbols related to the tracked movement of the structure over a time period by an apparatus comprising a front-end that generates received signals in response to backscattered ultrasound waves. A Doppler processor generates a spatial set of signals values representing movement within the structure. A non-Doppler processor generates a set of parameter signals representing a spatial set of B-mode values within the structure. A host processor embodies a tracking function to generate a set of tracked movement parameter profiles and motion parameter profiles over a time period corresponding to anatomical locations associated with the set of tagging symbols. A display processor overlays the set of tagging symbols onto an image of the moving structure on a monitor, such as B-mode, showing a pattern of indicia that allows visualization of the expansion and contraction of the moving structure in real-time over the time period.

Figures